



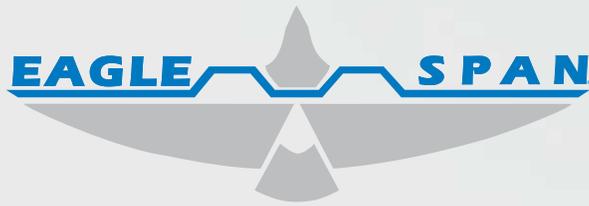
BEHLEN
Building Systems

EagleSpan®



Good Iron. GREAT Experience!

Upsetting the Status Quo...



A Unique  **BEHLEN** Product

Too often, metal building designs are constrained by a process that limits our imaginations. The “standard” for roof design revolves around various flat plane concepts, such as single slope, gable, and hip roofs. Behlen Building Systems is proud to announce **we’re “throwing a curve” at traditional thinking.**



Benefits of the distinctive EagleSpan® curved roof system include:

- A true radius frame (not segmented) that can clear span more than 200 feet
- Beams fabricated in our manufacturing facility (not outsourced) thus minimizing costs while maximizing quality
- Easy integration into traditional metal building design procedures
- Standing seam roof system is standard
- Frames have factory-applied white primer finish coating for clean, bright interiors

EagleBeam™ – a Distinctive Concept...

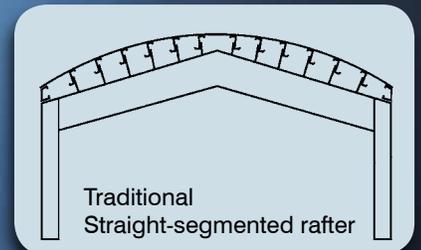
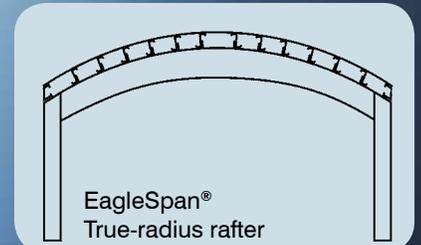
EagleBeam™ is an innovative three-plate beam design that features a unique trapezoidally shaped web which provides greater stability. The corrugations result in a stronger web than flat plate webs and oil-canning is virtually eliminated.

The corrugated web beam design is an important consideration for buildings with longer spans. Top and bottom flanges are kept in alignment – resisting the typical torsional displacement that can occur during installation of beams with flat plate webs.



...That Transforms into a Unique Curved Roof

The corrugated web possesses the inherent capability to shape the beam into a true-radius curved rafter. The traditional method for fabricating curved roofs involves straight rafter segments with graduated length roof purlin clips to simulate a curve. EagleSpan® simplifies and standardizes the process by actually curving the rafter and attaching equal-length clips at our factory. The design delivers the capability to be truly curved into a beautiful arched roof (from 50 foot radius and up). The result is a precisely fabricated frame that's easy to erect while providing a more finished and aesthetically pleasing inside appearance.



The technology of the EagleSpan® framing system provides considerable benefit to the designer, contractor, installer and building owner. Numerous wall and roof covering options are permissible (see page 7 for details).

The true curve of EagleSpan® (top diagram) offers three key advantages over straight rafters with graduated length purlin clips (bottom diagram): the lower cost of uniform clips, a broad range on the radius of the curve, and the congruence of an interior curve to maintain consistency with the exterior.

Expand Your Horizons...

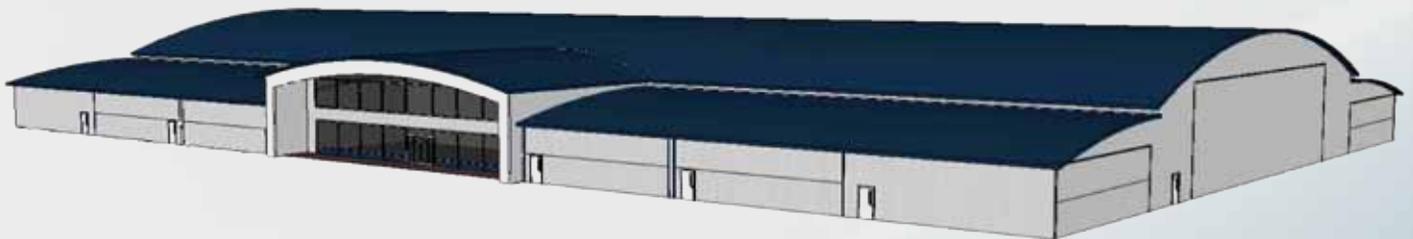
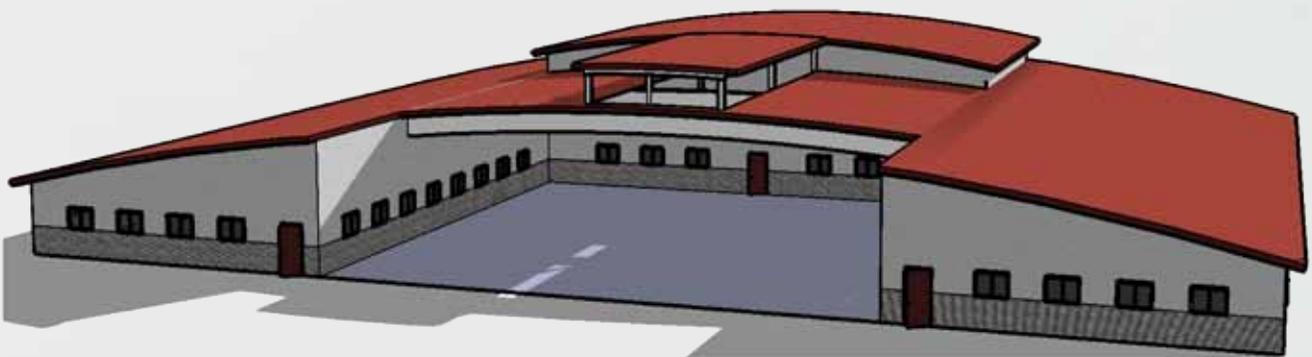
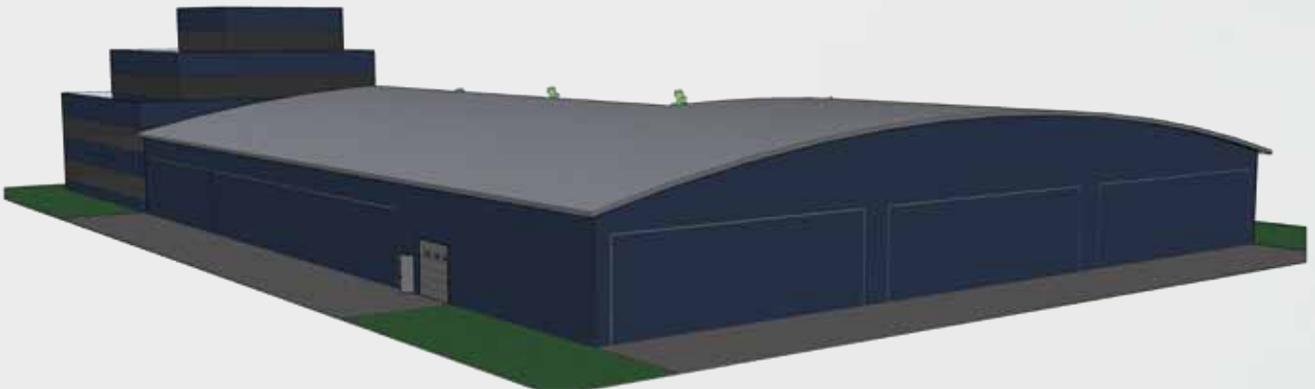
If you're looking for the most modern, advanced structure available look no farther than this unique product from Behlen Building Systems.





Think Outside the Box – With Curves...

These conceptual drawings demonstrate the design flexibility EagleSpan® provides.



The choice is yours — you have complete design freedom!

Roof Covering Options:

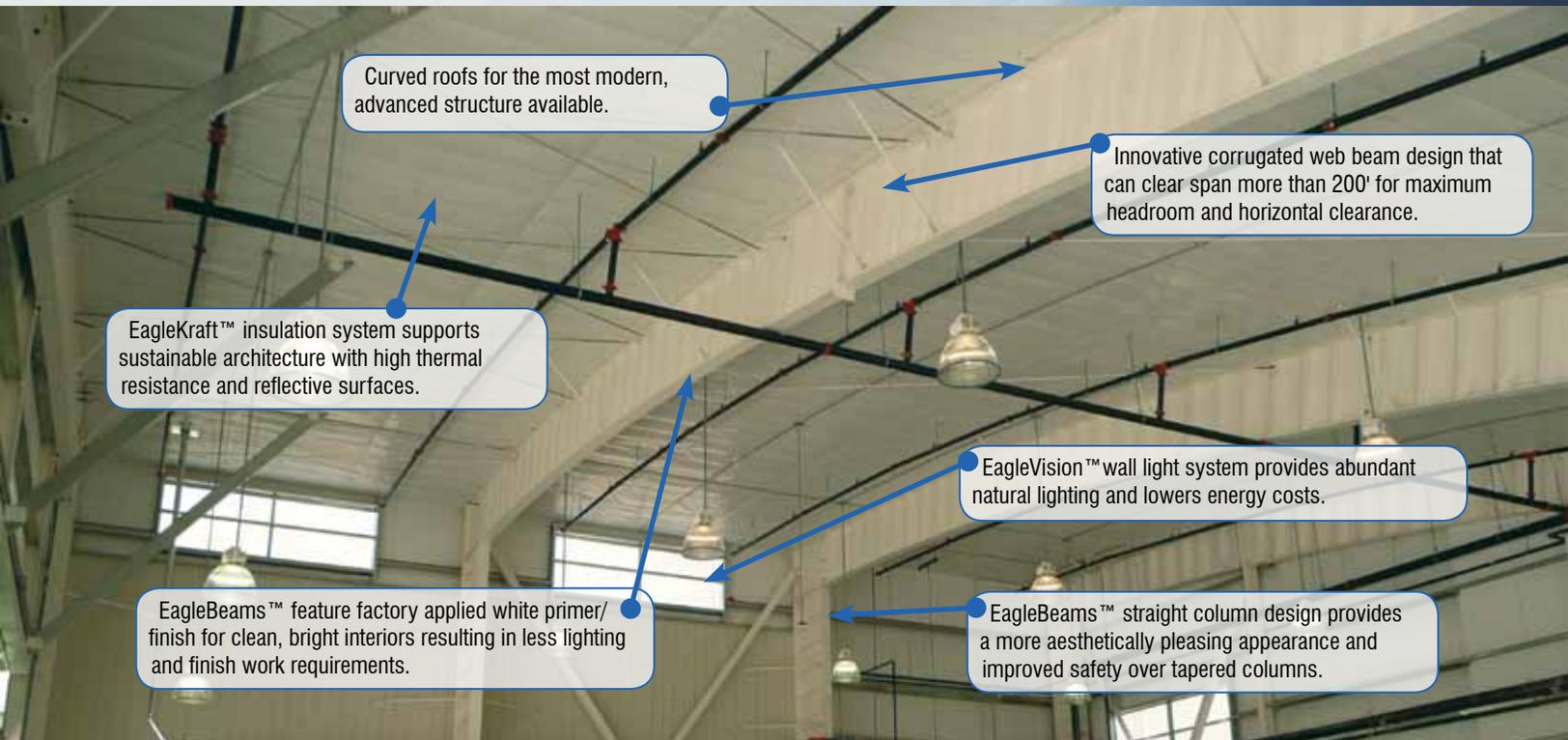
- 16" coverage x 2" vertical standing seam panel standard
- 90 degree or 180 degree mechanically-folded seams
- Substrate of either galvalume or aluminum
- Thickness of either 22 or 24 ga. (galvalume); or .032" or .040" (aluminum)
- Kynar 500™ color finish
- Panel support clips provide 2 inches of thermal expansion/contraction
- Other panel options include through-fastened or other architectural profiles

Wall Covering Options:

- Metal panels (smooth or textured)
- Factory insulated panels
- Wood
- Glass
- Brick
- Concrete
- Masonry



EagleSpan® Unique Features and Applications...



Curved roofs for the most modern, advanced structure available.

Innovative corrugated web beam design that can clear span more than 200' for maximum headroom and horizontal clearance.

EagleKraft™ insulation system supports sustainable architecture with high thermal resistance and reflective surfaces.

EagleVision™ wall light system provides abundant natural lighting and lowers energy costs.

EagleBeams™ feature factory applied white primer/finish for clean, bright interiors resulting in less lighting and finish work requirements.

EagleBeams™ straight column design provides a more aesthetically pleasing appearance and improved safety over tapered columns.

Focus Features

- EagleBeam™ with corrugated webs
- Bright white primer finish
- EagleKraft™ insulation system
- EagleVision™ wall light system

